

TRANSLATION of related part of Form PCT/IPEA409

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------|
| Applicant's or agent's file reference P36400-P0 | FOR FURTHER ACTION See Form PCT/IPEA/416 | |
| International application No. PCT/JP2005/000086 | International filing date (day/month/year) 6 January 2005 | Priority date (day/month/year) 23 January 2004 |
| International Patent Classification (IPC) or national classification and IPC Int. Cl. G11B20/14 (2006.01), G11B20/10 (2006.01), H04L7/02 (2006.01), H04L25/497 (2006.01) | | |
| Applicant Matsushita Electric Industrial Co., Ltd. | | |

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
 - a ☒ (sent to the applicant and to the International Bureau) a total of 9 sheets, as follows:
 - ☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).

OMISSION

4. This report contains indications relating to the following items:

- ☒ I Basis of the report
- ☐ II Priority
- ☐ III Non-establishment of opinion with regard to novelty, inventive step or industrial applicability
- ☐ IV Lack of unity of invention
- ☒ V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ VI Certain documents cited
- ☐ VII Certain defects in the international application
- ☐ VIII Certain observations on the international application

| | |
|-------------------------------------------------------------------|-----------------------------------------------------|
| Date of submission of the demand 18 November 2005 | Date of completion of this report 5 January 2006 |
| Name and mailing address of the IPEA/JP Japanese Patent Office | Authorized officer |
| Facsimile No. | Telephone No. |

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2005/000086

I. Basis of the report

1. With regard to the language, this opinion is based on the following:

☒ The international application in the language in which it was filed

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under PCT Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*.

☒ the description:
pages 1-2, 4, 6-12, as originally filed/furnished
pages 3, 3/1, 5, 5/1, received by this Authority on 18 November 2005

☒ the claims:
Nos. 1, 4-12, as originally filed/furnished
Nos. 2-3, 13, received by this Authority on 18 November 2005

☒ the drawings:
Figures 1-5, as originally filed/furnished

OMISSION(3, 4)

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V. Reasoned statement under Article 12 (PCT Article 35(2)) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. STATEMENT

| | | |
|-------------------------------|-------------------|-----|
| Novelty (N) | Claims 2-4, 7-13 | YES |
| | Claims 1, 5-6 | NO |
| Inventive Step(IS) | Claims 2-4, 9-12 | YES |
| | Claims 1, 5-8, 13 | NO |
| Industrial Applicability (IA) | Claims 1-13 | YES |
| | Claims NONE | NO |

2. CITATIONS AND EXPLANATIONS (PCT Rule70.7)

Document 1: JP 2000-243034 A (Fujitsu Ltd.),
2000.09.08

Document 2: JP 2001-195830 A (Matsushita Electric Industrial Co.,Ltd.),
2001.07.19

Document 3: JP 11-339395 A (Sony Corporation),
1999.12.10

Claims 1, 5-6

The document 1 discloses a construction provided with an equalizer for clock reproduction and an equalizer for data reproduction, and further, it discloses a construction in which the both equalizers are adaptive transversal filters.

Claim 7

The vertical resolution of an A/D converter is a term in design that is arbitrarily determined by those skilled in the art.

Claim 8

It is an obvious term for those skilled in the art to use a Viterbi decoder as a data detector (decoder).

Claim 13

The document 2 discloses a construction for performing offset correction Before performing waveform equalization.

It is obvious to those skilled in the art that a construction obtained by adding the offset correction means of the document 2 to the construction of the document 1 is included in the invention relating to claim 13.

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of V.

Claims 2-4, 9-12

A construction for performing baseline control to an output signal from a waveform equalizer and an input signal to an adaptive transversal filter on the basis of the output signal of the waveform equalizer is not disclosed in any of the documents cited in the International Search Report and the document 3 that is newly cited in the International Preliminary Examination, and therefore, it is not obvious to those skilled in the art.